

OIB - HU-25C Guardian #524 09/11/16 Science Report

Aircraft:

[HU-25A Guardian #524](#) ([See full schedule](#))

Date:

Sunday, September 11, 2016

Mission:

OIB

Mission Location:

Kangerlussuaq, Greenland

Mission Summary:

Mission: Falcon IceSat-2 Central (priority: high)

This mission is a shortened version of the mission of the same name flown in Spring 2016. The purpose is to fly IceSat-2 ground tracks in a region of slow-moving ice near Kangerlussuaq. Additional portions of that original design are flown in the Falcon Mop-up 1 mission.

As we expected from our morning weather brief, the high pressure centered near Summit brought mild outflow to the west-central flank of the ice sheet near Kangerlussuaq. This outflow had the effect of gradually dissipating the fog and low stratus present in this area earlier today. As a result we lost only a few km at the extreme southern and northern ends of the westernmost IceSat-2 line, for 99% successful data acquisition.

All instruments performed well, with the exception of the FLIR camera which shut off early in the mission. It was eventually restarted successfully, but only after landing.

We conducted a ramp pass at 3500' AGL.

Data volumes:

CAMBOT: 11 Gb images

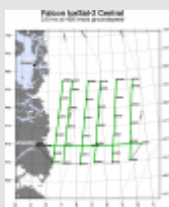
Narrow Swath ATM: 20 Gb

FLIR: 0.5 Gb

total data collection time: 3.4 hrs

Images:

Map of Falcon - IceSat-2 Central



[Read more](#)

Margin of ice sheet with clouds



[Read more](#)

Submitted by:

John Sonntag on 09/11/16

Related Flight Report:

HU-25A Guardian #524 09/11/16

Flight Number:

OIB 2016 on HU-25 #29

Payload Configuration:

ATM

Nav Data Collected:

No

Total Flight Time:

3.7 hours

Submitted by:

Richard Yasky on 09/11/16

Flight Segments:

From:	BGSF	To:	BGSF
Start:	09/11/16 15:23 Z	Finish:	09/11/16 19:03 Z
Flight Time:	3.7 hours		
Log Number:	16F003	PI:	Nathan Kurtz
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryosphere & International Polar Year		
Purpose of Flight:	Science		
Comments:	ICESAT 2 Central route flown. Reversed route to take advantage of expected clearing weather. Transect W-E had about 40 NM obscured by low clouds. Five N-S lines were clear and final N_S line closest to Kanger was about 75% clear for data. Got a 3500 ft ramp AGL pass in prior to landing.		

Flight Hour Summary:

	16F003
Flight Hours Approved in SOFRS	121.25
Total Used	126.9
Total Remaining	-5.65

16F003 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
06/29/16	OIB 2016 on HU25A ICF	Science	2	2	119.25
07/11/16	OIB 2016 on HU25A #1	Ferry	2.6	4.6	116.65
07/11/16	OIB 2016 on HU25A #2	Ferry	2.5	7.1	114.15
07/11/16 - 07/12/16	OIB 2016 on HU25A #3	Ferry	2.2	9.3	111.95
07/12/16 - 07/13/16	OIB 2016 on HU25A #4	Ferry	2.6	11.9	109.35
07/13/16	OIB 2016 on HU25A #5	Science	3.4	15.3	105.95
07/14/16	OIB 2016 on HU25A #6	Science	3.5	18.8	102.45
07/15/16	OIB 2016 on HU25A #7	Science	3.7	22.5	98.75
07/19/16 - 07/20/16	OIB 2016 on HU25A #8	Science	3.6	26.1	95.15
07/20/16	OIB 2016 on HU25A #9	Science	3.4	29.5	91.75
07/21/16	OIB 2016 on HU25A #10	Science	3.6	33.1	88.15
07/22/16	OIB 2016 on HU25A #11	Ferry	3.9	37	84.25

07/22/16	OIB 2016 on HU25A #12	Ferry	3.2	40.2	81.05
07/22/16	OIB 2016 on HU25A #13	Ferry	2.1	42.3	78.95
08/23/16	OIB 2016 on HU-25 #14	Science	2.3	44.6	76.65
08/25/16	OIB 2016 on HU-25 #15	Ferry	3.2	47.8	73.45
08/25/16	OIB 2016 on HU-25 #16	Ferry	2.2	50	71.25
08/27/16	OIB 2016 on HU-25 #17	Science	3.7	53.7	67.55
08/29/16	OIB 2016 on HU-25 #18	Science	3.8	57.5	63.75
08/29/16	OIB 2016 on HU-25 #19	Science	3.5	61	60.25
09/01/16	OIB 2016 on HU-25 #20	Science	3.4	64.4	56.85
09/02/16	OIB 2016 on HU-25 #21	Science	3.8	68.2	53.05
09/02/16	OIB 2016 on HU-25 #22	Science	3.8	72	49.25
09/05/16	OIB 2016 on HU-25 #23	Science	0.6	72.6	48.65
09/06/16	OIB 2016 on HU-25 #24	Science	3.5	76.1	45.15
09/09/16	OIB 2016 on HU-25 #25	Science	3.5	79.6	41.65
09/09/16	OIB 2016 on HU-25 #26	Science	3.5	83.1	38.15
09/10/16	OIB 2016 on HU-25 #27	Science	3	86.1	35.15
09/11/16	OIB 2016 on HU-25 #28	Science	3.9	90	31.25
09/11/16	OIB 2016 on HU-25 #29	Science	3.7	93.7	27.55
09/12/16	OIB 2016 on HU-25 #30	Science	3.3	97	24.25
09/12/16	OIB 2016 on HU-25 #31	Science	2.7	99.7	21.55
09/13/16	OIB 2016 on HU-25 #32	Science	4	103.7	17.55
09/13/16	OIB 2016 on HU-25 #33	Science	2.9	106.6	14.65
09/15/16	OIB 2016 on HU-25 #34	Science	3.7	110.3	10.95
09/16/16	OIB 2016 on HU-25 #35	Ferry	2.4	112.7	8.55
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	114.4	6.85
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	116.1	5.15
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.8	118.9	2.35
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.9	121.8	-0.55
09/19/16	OIB 2016 on HU-25 #40	Ferry	2.5	124.3	-3.05

[09/19/16](#)

OIB 2016 on HU-
25 #40 Ferry

2.6

126.9

-5.65

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

[NASA Home](#)

Page Last Updated: April 22,
2017

Page Editor: Erin Justice

NASA Official: Bruce A.

Tagg

- [Budgets, Strategic Plans and Accountability Reports](#)
- [Equal Employment Opportunity Data Posted Pursuant to the No Fear Act](#)
- [Information-Dissemination Policies and Inventories](#)
- [Freedom of Information Act](#)
- [Privacy Policy & Important Notices](#)
- [NASA Advisory Council](#)
- [Inspector General Hotline](#)
- [Office of the Inspector General](#)
- [NASA Communications Policy](#)
- [Contact NASA](#)
- [Site Map](#)
- [USA.gov](#)
- [Open Government at NASA](#)

Source URL: https://airbornescience.nasa.gov/science_reports/OIB_-_HU-25C_Guardian_524_09_11_16_Science_Report_0?destination=node/43863